

Applicant : Daniel M. LaFontaine
Serial No. : 10/694,532
Filed : October 27, 2003
Page : 2 of 8

Attorney's Docket No.: 10527-430002 / 00-0145-CON

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A cryoplasty apparatus, comprising:
a catheter having a proximal and a distal end;
a cooling member disposed at the distal end of the catheter;
a pull cord ~~coupled to~~ arranged to pull the cooling member proximally; and
a sheath that couples the pull cord and the catheter.
2. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member includes a balloon.
3. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises at least one electrode.
4. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises at least one pad printed conductive electrode.
5. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises at least one thermo-resistive sensor.
6. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a support member.
7. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a mesh cage and at least one cryoplasty chamber.

Applicant : Daniel M. LaFontaine
Serial No. : 10/694,532
Filed : October 27, 2003
Page : 3 of 8

Attorney's Docket No.: 10527-430002 / 00-0145-CON

8. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a cryoplasty ring/
9. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a heat exchange surface connected to a cooling tube.
10. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the heat exchange surface is slidable.
11. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a slideable and rotatable sprayer.
12. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the cooling member further comprises a cryoplasty assembly, the cryoplasty assembly comprising a mesh and an outer surface.
13. (Currently Amended) The cryoplasty apparatus in accordance with claim 1, wherein the pull cord extends from a distal end of the cooling member~~includes a pull cord~~.
14. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the pull cord is disposed on the cooling member.
15. (Original) The cryoplasty apparatus in accordance with claim 1, wherein the catheter is at least in part surrounded by an insulating sheath which in part defines a vacuum lumen.
16. (Currently amended) A cryoplasty apparatus, comprising:

Applicant : Daniel M. LaFontaine
Serial No. : 10/694,532
Filed : October 27, 2003
Page : 4 of 8

Attorney's Docket No.: 10527-430002 / 00-0145-CON

a catheter having a proximal end and a distal end, the catheter defining an inflation lumen, a coolant intake lumen, and exhaust lumen therethrough, each lumen having a proximal end and a distal end proximate the proximal and distal ends of the catheter respectively;
a cooling member disposed at the distal end of the catheter and in fluid communication with the inflation lumen;
a pull cord ~~coupled to~~arranged to pull the cooling member proximally; and
a sheath that couples the pull cord and the catheter and includes a first lumen for the pull cord and a second lumen for the catheter.

17. (Original) The cryoplasty apparatus in accordance with claim 16, further comprising a source of coolant being connected to the proximal end of the catheter in fluid communication with the intake lumen.

18. (Original) The cryoplasty apparatus in accordance with claim 16, wherein the coolant source is liquid N₂.

19. (Original) The cryoplasty apparatus in accordance with claim 16, wherein the catheter further defines a guidewire lumen.

20. (Original) The cryoplasty apparatus in accordance with claim 16, wherein the cooling member further comprises at least one electrode.